

**GREG BEST
CONSULTING, INC.**

13008 W. 67th St.
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816-792-2913

July 1, 2015

Federal Communications Commission
Media Bureau—Video Division

Dear Sir,

The proposed facility is actually an existing structure operating DTV and FM radio stations already approved by the FCC for operation. This application corrects a coordinate documentation and site elevation issue associated with the tower. The revised documentation does not indicate any need for an environmental exhibit.

To be sure that no RF exposure hazards exists, the calculations shown below indicate no RF exposure hazard exists and thus no environmental assessment is required as a result of the RF exposure at this site.

RF EXPOSURE CALCULATION

The RF radiation near the ground (2 meters above ground) for the DTV facility can be calculated using the OET-65 formula for broadcast television stations taking into account the following factors

S= power density in watts per square meter

P= total Effective Radiated Power from the antenna

F= field radiated on the axis to the ground level

R= distance to the ground level (actually 2 meters above ground)

Therefore, given the following data for the proposed facility:

P= 15.0 kwatts

R=Radiation center above ground level – 2 meters)
= 321 meters

F= 0.1 for UHF antennas

The RF radiation near the ground level can be calculated with the following result:

.049 $\mu\text{watts}/\text{cm}^2$

which is 0.01 % of the general population exposure limit of 395 $\mu\text{w}/\text{cm}^2$ for this channel 34 facility.

In addition to the KOMI-CD transmission facility, there are additional radiators on this tower. FM Radio stations KWOX, KZZW, and KMZE all radiate their signals from this tower. The FM model program was used to calculate the amount of RF exposure at the respective frequencies indicated for each station and then summed. The FM radio RF exposure in percentage is then added to the TV RF exposure in percentage to determine the total RF exposure near the bottom of the tower.

For KWOX, the RF exposure calculated using 82 kW ERP & an RCAGL of 352 meters is 2.18 uw/cm^2 or 1.09% of the General Population Exposure Limit. (10 bay FW spaced Rototiller antenna model).

For KZZW, the RF exposure calculated using 62 kW ERP & an RCAGL of 352 meters is 1.64 uw/cm^2 or 0.82 % of the General Population Exposure Limit. (10 bay FW spaced Rototiller antenna model).

For KMZE, the RF exposure calculated using 2.1 kW ERP & an RCAGL of 320 meters is 0.31 uw/cm^2 or 0.16 % of the General Population Exposure Limit. (Single bay FW spaced Rototiller antenna model).

Summing all the percentages of the existing TV and radio transmission facilities, the total percentage is 2.07 % of the General Population Exposure Limit. Thus the facility can be excluded from consideration from an RF exposure point of view for an environmental assessment.

Should you have any questions, please contact me at the number above.

Sincerely,

A handwritten signature in black ink that reads "Gregory L. Best, PE". The signature is written in a cursive style.

President